

--1. A discrimination primer for amplifying a nucleic acid that includes a first base at a position suspected of a polymorphism and a second base immediately 3' to the first base, the primer comprising:

A1 a first nucleotide, which is located at the 3' terminus of the primer and contains a base that is complementary to the first base;

a second nucleotide, which is located immediately 5' to the first nucleotide and contains a base that is not complementary to the second base;

a segment of nucleotides, which is located immediately 5' to the second nucleotide and is complementary to a part of the nucleic acid that is immediately 3' to the second base; and

a first binding member of a specific binding pair covalently bonded to the 5' terminus of the segment, wherein the first binding member is not labeled directly or indirectly and a second binding member of the binding pair is adapted for affixation on a solid substrate.

A2 23. A kit for amplifying a nucleic acid that includes a first base at a position suspected of the polymorphism and a second base immediately 3' to the first base, the kit comprising a first primer and a second primer, wherein the first primer includes a first nucleotide, which is located at the 3' terminus and contains a base that is complementary to the first base, a second nucleotide, which is located immediately 5' to the first nucleotide and contains a base that is not complementary to the second base; a segment of nucleotides, which is located immediately 5' to the second nucleotide and is complementary to a part of the nucleic acid that is immediately 3' to the second base; and a first binding member of a specific binding pair covalently bonded to the 5' terminus of the segment, wherein the first binding member is not labeled directly or indirectly and a second binding member of the binding pair is adapted for affixation on a solid substrate.

A3 32. The kit of claim 25, wherein each of the first binding members of the first primers is, independently, a peptide or an oligonucleotide that is not complementary to any part of the nucleic acid.

33. The kit of claim 24, wherein the first binding members of the first primers are different oligonucleotides.

A3
34. The kit of claim 33, wherein the second primer includes a label at the 5' terminus.

COO4.
35. The kit of claim 31, wherein the second primer includes a label at the 5' terminus.

36. The kit of claim 29, wherein the first binding member is an oligonucleotide, which is not complementary to any part of the nucleic acid. --
